

Appendix B: Provincial Case Definitions for Diseases of Public Health Significance

Disease: Yersiniosis

Effective: February 2019

Yersiniosis

1.0 Provincial Reporting

Confirmed and probable cases of disease

2.0 Type of Surveillance

Case-by-case

3.0 Case Classification

3.1 Confirmed Case

Laboratory confirmation of infection with or without clinically compatible signs and symptoms:

- Isolation of *Yersinia* spp. by culture (except pestis and biotype 1A) from an appropriate clinical specimen (e.g. stool, blood, urine)

3.2 Probable Case

- Clinically compatible signs and symptoms in a person with an epidemiologic link to a laboratory-confirmed case.

OR

Positive/detection of *Yersinia enterocolitica* by a nucleic acid amplification test (NAAT) Laboratory Evidence

3.3 Laboratory Confirmation

The following will constitute a confirmed case of Yersiniosis:

- Positive culture for *Yersinia* spp.

3.4 Approved/Validated Tests

- Standard culture for *Yersinia* spp.
- Biotyping and serotyping
- Nucleic acid amplification test (NAAT) (which includes polymerase chain reaction [PCR] and multiplex molecular tests) for *Yersinia enterocolitica*

3.5 Indications and Limitations

- Further strain characterization is indicated for public health purposes.
- Serology titres $\geq 1:50$ to $\leq 1:200$ may be due to non-specific cross reactions or past infection.

4.0 Clinical Evidence

Clinically compatible signs and symptoms are characterized by diarrhea, abdominal pain, malaise, fever, nausea, and/or vomiting.

5.0 ICD 10 Code(s)

A04.6 Enteritis due to *Yersinia enterocolitica*

6.0 Sources

Acha P, Szyfres B. Zoonoses and Communicable Diseases Common to Man and Animals. Vol. 1. 3 ed. Washington, DC: Pan American Health Organization; 2001.

Heymann DL, editor. Control of Communicable Diseases Manual. 20 ed. Washington, D.C: American Public Health Association; 2015.

7.0 Document History

Table 1: History of Revisions

Revision Date	Document Section	Description of Revisions
January 2014	General	New template. Section 9.0 Document History added.
January 2014	3.1 Confirmed Case	Second bullet point changed from “A positive serological test for <i>Yersinia</i> spp” to “Detection of <i>Yersinia enterocolitica</i> by nucleic acid amplification testing (NAAT) from an appropriate clinical specimen”.
January 2014	4.1 Laboratory Confirmation	Second bullet point added “Positive NAAT for <i>Yersinia</i> spp”.
January 2014	4.2 Approved/ Validated Tests	Addition of third bullet point “NAAT for <i>Yersinia enterocolitica</i> ”.
January 2014	4.3 Indications and Limitations	The following was deleted: “Commercial nucleic acid amplification test (NAT) assays for <i>Yersinia</i> spp. are presently not available”.
January 2014	8.0 Sources	Updated.

Revision Date	Document Section	Description of Revisions
February 2019		<p>Minor revisions were made to support the regulation change to Diseases of Public Health Significance</p> <p>Laboratory confirmation of infection with or without clinically compatible signs and symptoms:</p> <p>Confirmed case:</p> <ul style="list-style-type: none"> • Isolation of <i>Yersinia</i> spp. (except pestis and biotype 1A) from an appropriate clinical specimen (e.g. stool, blood, urine) • Deletion of NAAT testing <p>Probable case definition now includes sub-bullet for NAAT testing.</p>

